Jefferson Lab Alignment Group
DATA TRANSMITTAL

TO: Antonin Vacheret **DATE:** August 5, 2002

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DETAILS:

The results for the Happex detector in line A are based upon a coordinate system which has its origin as the center of the Moeller magnet, its positive Z axis in the direction from this origin towards the Hall A target, X axis perpendicular to the Z axis and in the beam left direction and the Y axis in vertical direction. All units are millimeters and decimal degrees.

The resulting angles and coordinates are as follows:

The top upstream edge of the Happex intersect the ZY plane at :

x = 0.0 y = -165.1 z = 1465.6

The corner intersection of the top, upstream and beam left of the Happex is :

X = -79.4 y = -179.3 z = 1553.6

The yaw angle of the Happex at this corner is -42.071°, pitch angle is 6.847° and roll angle is -6.179°.